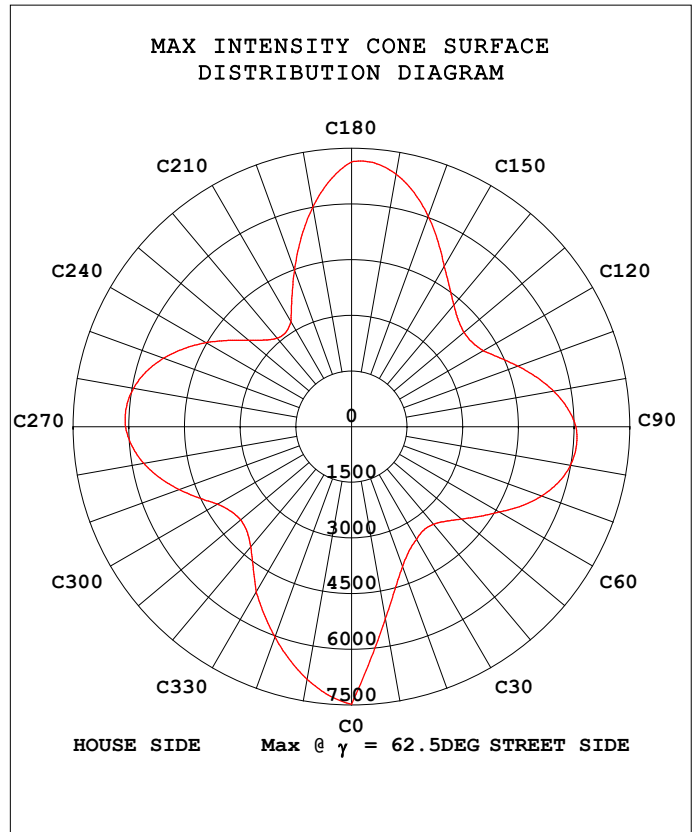
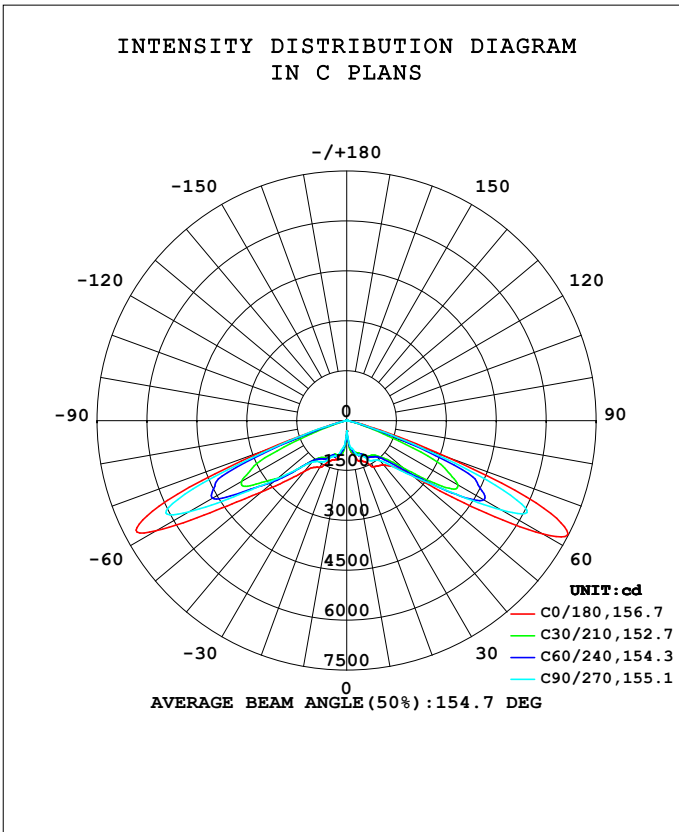


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:230.23V I:0.4359A P:98.246W PF:0.9790 Freq:49.99Hz Lamp Flux:11315.1x1 lm		
NAME: COMO-100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	3000	I <sub>max</sub> (cd)	7475	η street_up (%)	0.3
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	49.7
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	11315	η house_up (%)	0.4
NOMINAL FLUX (lm)	11315.1	MAXIMUM @ (C, γ )	0,62.5	η house_down (%)	49.6
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	230	η down (%)	99.3	SLI	20.072

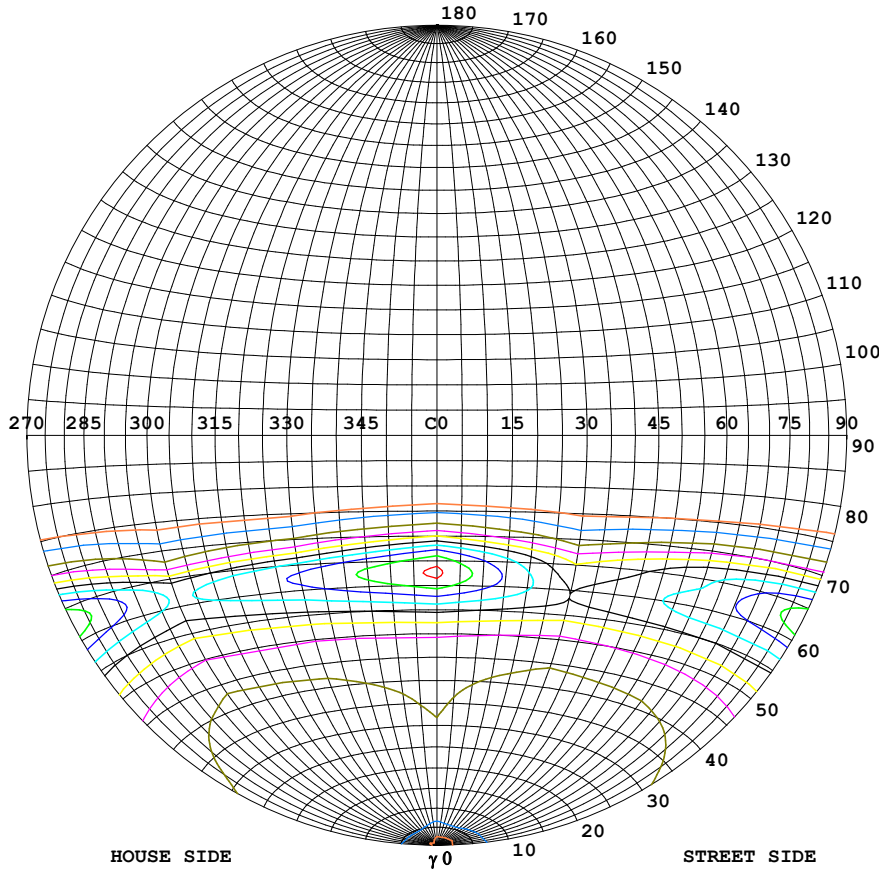


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: ADMIN  
 Test Date: 2023-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity: 65.0%  
 Test Distance: 9.345m [K=1.0000]  
 Remarks:

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:230.23V I:0.4359A P:98.246W PF:0.9790 Freq:49.99Hz Lamp Flux:11315.1x1 lm		
NAME: COMO-100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



**Classification:**

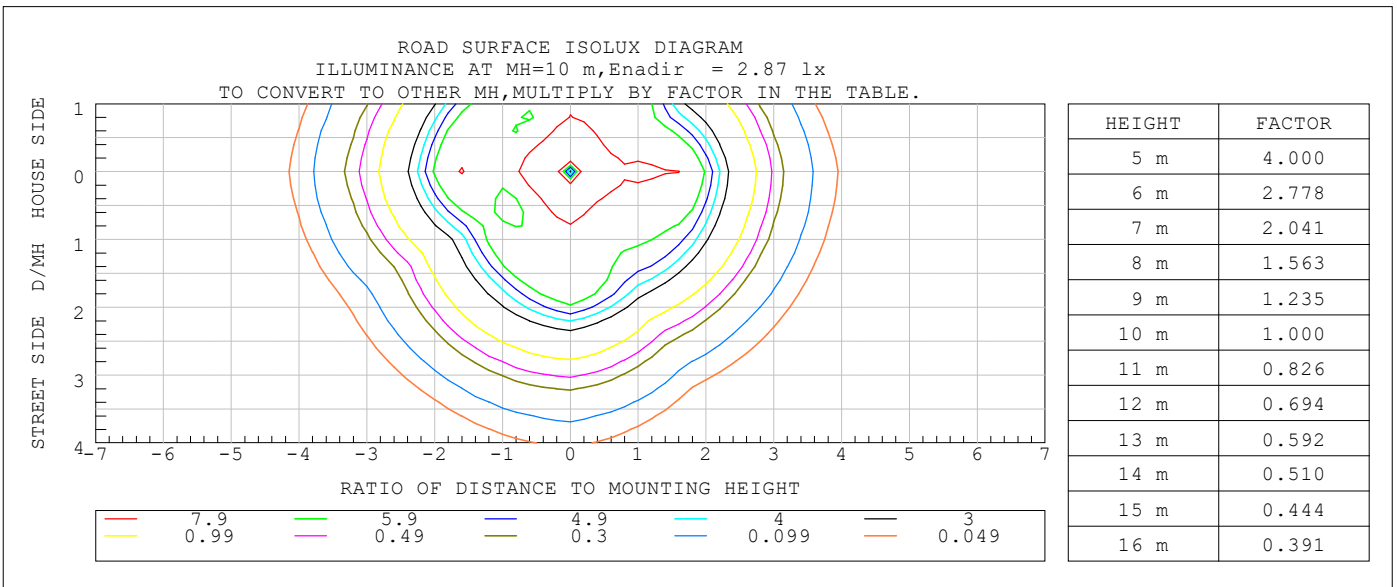
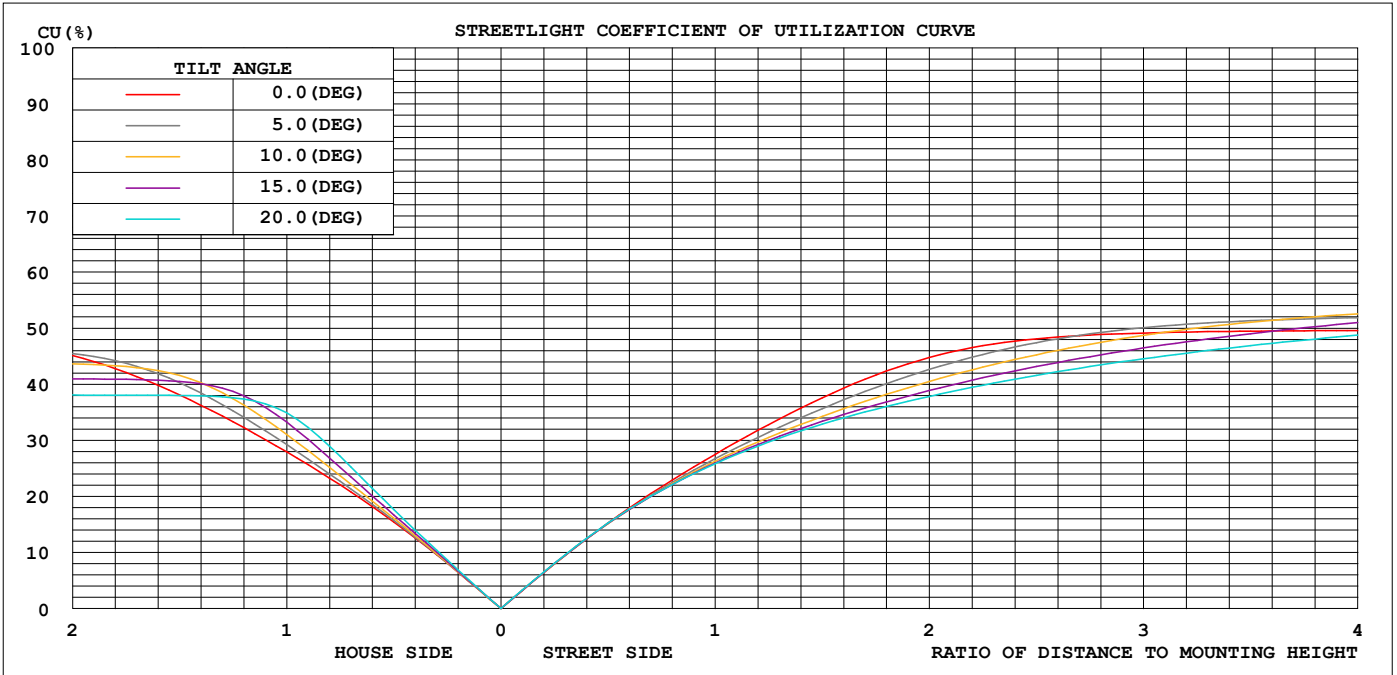
IES:Type VS - Short  
 CIE:Narrow - Intermediate  
 IES:Cut-off  
 CIE:Full cut-off  
 Max.At80:8.962cd/klm  
 Max.At90:0.6351cd/klm  
 Max.80-90:8.962cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	7475
— 90%	6727
— 80%	5980
— 70%	5232
— 60%	4485
— 50%	3737
— 40%	2990
— 30%	2242
— 20%	1495
— 10%	747
— 5%	374

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ADMIN  
 Test Date:2023-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:9.345m [K=1.0000]  
 Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: ADMIN  
Test Date: 2023-09-20

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
Humidity: 65.0%  
Test Distance: 9.345m [K=1.0000]  
Remarks:

ZONAL FLUX DIAGRAM

Test:U:230.23V I:0.4359A P:98.246W PF:0.9790 Freq:49.99Hz Lamp Flux:11315.1x1 lm		
NAME: COMO-100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

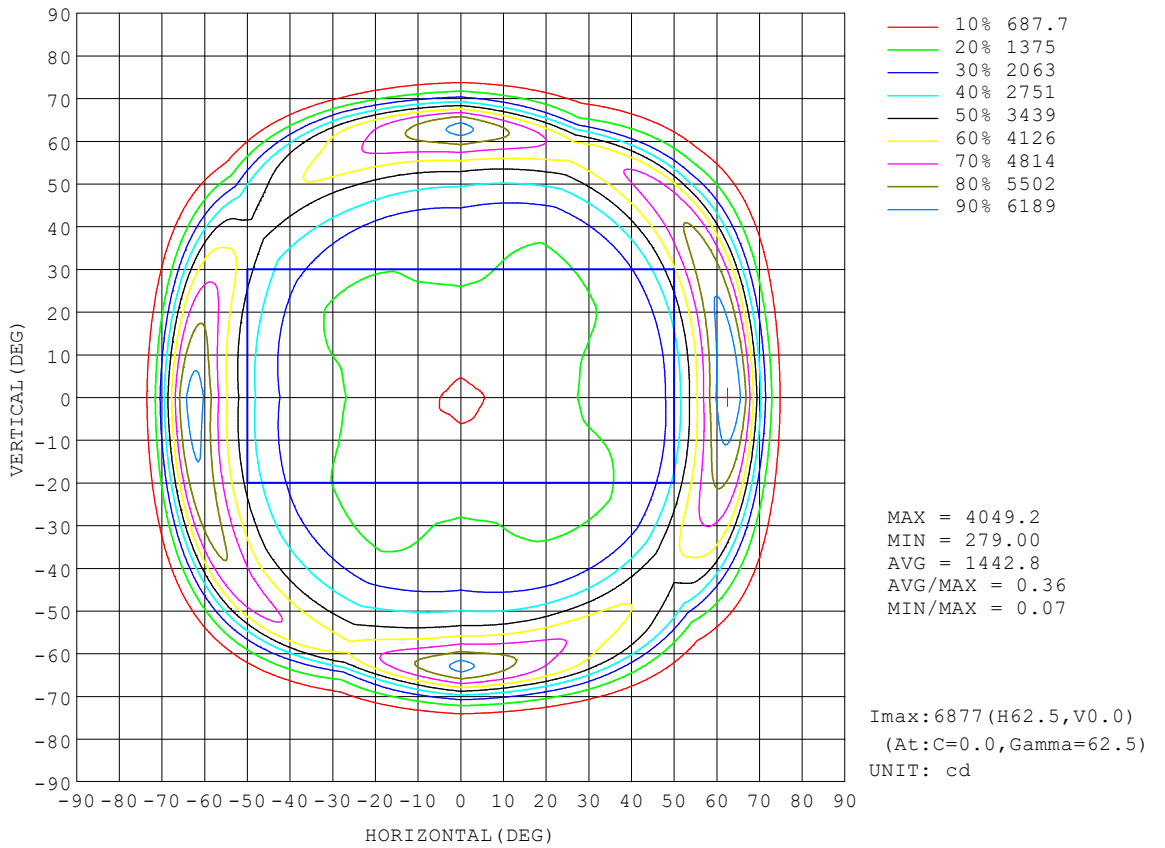
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	986.9	923.7	867.8	909.8	1008	1004	880.1	926.9	0- 10	74.61	74.61	0.66,0.66
20	1275	1068	1095	1022	1258	1099	1156	1026	10- 20	298.0	372.6	3.29,3.29
30	1602	1264	1393	1219	1623	1320	1432	1225	20- 30	558.1	930.6	8.22,8.22
40	1752	1401	1577	1412	2005	1563	1640	1359	30- 40	887.9	1819	16.1,16.1
50	2599	2309	2611	2412	3328	2769	2715	2215	40- 50	1513	3332	29.4,29.4
60	6825	4317	5375	4184	6630	4160	5490	4504	50- 60	3289	6621	58.5,58.5
70	3234	1622	2420	1443	2574	1394	2123	1244	60- 70	4040	10661	94.2,94.2
80	101.4	52.00	58.89	27.70	27.26	17.40	28.96	27.55	70- 80	565.0	11226	99.2,99.2
90	5.102	4.824	4.887	5.368	7.186	6.454	6.210	6.637	80- 90	9.220	11236	99.3,99.3
100	9.495	7.806	9.012	8.523	11.82	9.827	10.32	9.687	90-100	8.177	11244	99.4,99.4
110	13.47	11.74	12.78	12.04	15.08	13.17	13.45	12.77	100-110	11.88	11256	99.5,99.5
120	15.73	14.30	14.81	13.96	16.87	15.25	15.18	14.68	110-120	13.76	11269	99.6,99.6
130	17.30	15.58	16.05	15.08	17.66	16.10	15.76	15.53	120-130	13.98	11283	99.7,99.7
140	18.10	15.65	16.26	14.94	17.12	15.33	15.05	14.95	130-140	12.18	11296	99.8,99.8
150	16.92	15.11	15.07	14.44	15.13	13.74	13.36	13.28	140-150	9.698	11305	99.9,99.9
160	13.09	11.89	11.55	11.03	12.01	10.79	10.78	10.64	150-160	5.936	11311	100,100
170	11.26	10.04	10.02	9.577	11.11	9.737	9.812	9.438	160-170	3.000	11314	100,100
180	8.801	8.218	7.740	8.638	8.807	8.221	7.712	8.713	170-180	0.9131	11315	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ADMIN  
 Test Date:2023-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:9.345m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

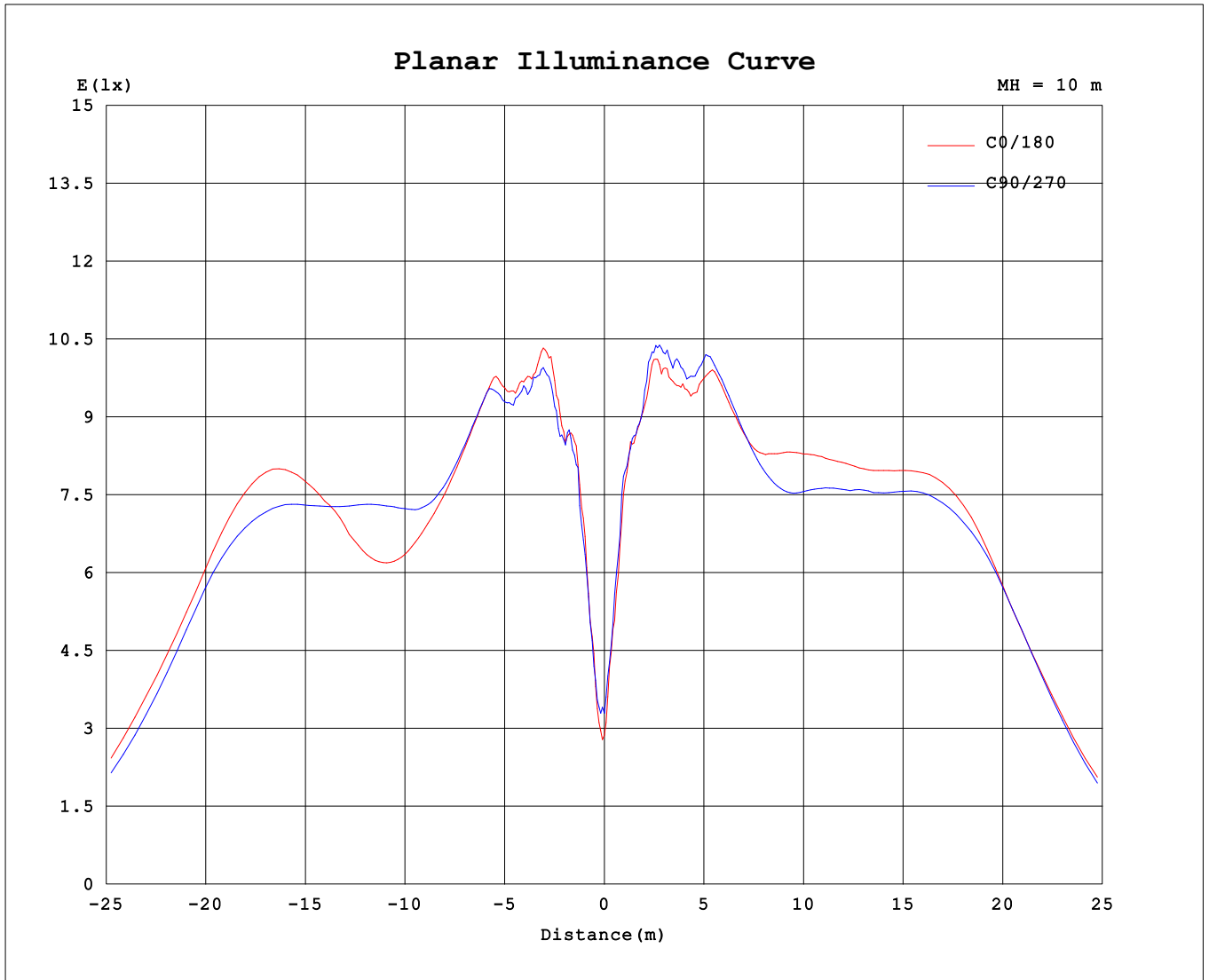
Test:U:230.23V I:0.4359A P:98.246W PF:0.9790 Freq:49.99Hz Lamp Flux:11315.1x1 lm		
NAME: COMO-100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: ADMIN  
 Test Date: 2023-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity: 65.0%  
 Test Distance: 9.345m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



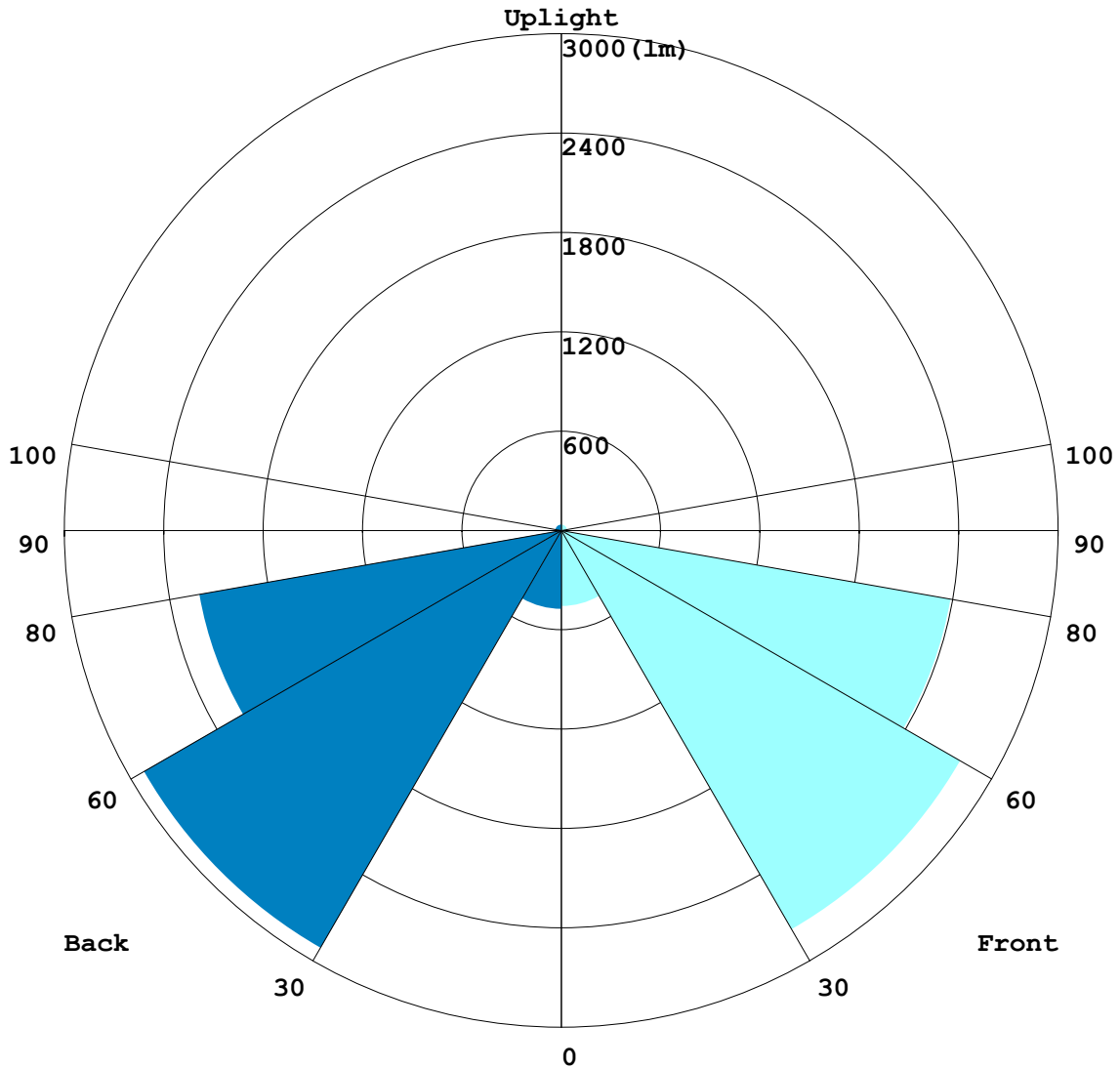
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: ADMIN  
 Test Date: 2023-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity: 65.0%  
 Test Distance: 9.345m [K=1.0000]  
 Remarks:

**LCS REPORT**

Test:U:230.23V I:0.4359A P:98.246W PF:0.9790 Freq:49.99Hz Lamp Flux:11315.1x1 lm		
NAME: COMO-100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

**LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH**



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ADMIN  
 Test Date:2023-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:9.345m [K=1.0000]  
 Remarks:

**BUG REPORT**

Test:U:230.23V I:0.4359A P:98.246W PF:0.9790 Freq:49.99Hz Lamp Flux:11315.1x1 lm		
NAME: COMO-100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	456.26	4.0
FM - Front-Medium(30-60)	2780.4	24.6
FH - Front-High(60-80)	2386.4	21.1
FVH - Front-Very High(80-90)	5.3143	0.0
<b>Total Forward Light</b>	<b>5667.3</b>	<b>50.1</b>

BL - Back-Low(0-30)	474.37	4.2
BM - Back-Medium(30-60)	2910.2	25.7
BH - Back-High(60-80)	2218.7	19.6
BVH - Back-Very High(80-90)	3.9061	0.0
<b>Total Back Light</b>	<b>5647.8</b>	<b>49.9</b>

UL - Uplight-Low(90-100)	8.1773	0.1
UH - Uplight-High(100-180)	71.345	0.6
<b>Total Up Light</b>	<b>79.523</b>	<b>0.7</b>

<b>BUG(Back,Up,Glare) Rating</b>	<b>B3-U3-G2</b>
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5607.2	40.618	5647.8
Street Side	5628.4	38.905	5667.3

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:ADMIN  
 Test Date:2023-09-20

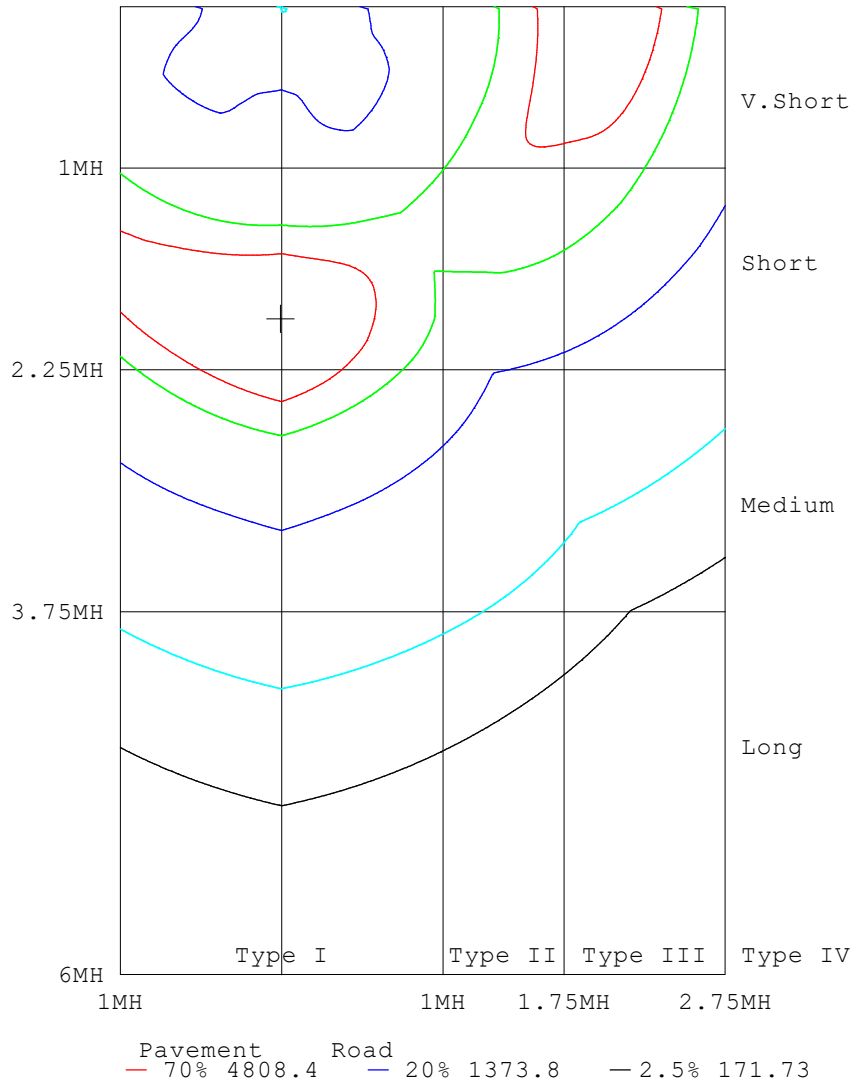
γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:9.345m [K=1.0000]  
 Remarks:



ROAD ISOCANDELA REPORT

Test:U:230.23V I:0.4359A P:98.246W PF:0.9790 Freq:49.99Hz Lamp Flux:11315.1x1 lm		
NAME: COMO-100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:ADMIN  
Test Date:2023-09-20

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:9.345m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.23V I:0.4359A P:98.246W PF:0.9790 Freq:49.99Hz Lamp Flux:11315.1x1 lm		
NAME: COMO-100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	312	312	312	312	312	312	312	312	312	312	312	312							
5	670	716	627	571	698	626	767	841	780	719	755	750							
10	987	967	882	868	935	885	1008	1029	981	880	930	924							
15	1226	995	1021	1013	968	1014	1219	1076	1114	1086	965	1008							
20	1275	1023	1112	1095	953	1090	1258	1081	1115	1156	988	1064							
25	1387	1125	1134	1177	1061	1090	1384	1165	1196	1255	1069	1111							
30	1602	1249	1278	1393	1190	1247	1623	1299	1341	1432	1198	1251							
35	1663	1282	1333	1459	1234	1314	1719	1362	1405	1503	1244	1297							
40	1752	1373	1428	1577	1342	1481	2005	1556	1570	1640	1334	1383							
45	1954	1612	1717	1939	1724	1918	2548	2026	2041	2027	1601	1601							
50	2599	2186	2428	2611	2315	2508	3328	2697	2839	2715	2211	2218							
55	4319	3368	3674	3657	2989	3247	4590	3330	3660	3786	3129	3418							
60	6825	3854	4762	5375	3903	4462	6630	3642	4658	5490	4165	4838							
65	6962	3133	4302	5644	3546	4790	6443	2869	4323	5600	3212	4486							
70	3234	1174	2053	2420	1085	1795	2574	970	1801	2123	969	1515							
75	686	343	401	477	228	321	457	176	318	381	245	304							
80	101	42.9	60.7	58.9	23.0	32.3	27.3	13.1	21.5	29.0	22.6	32.4							
85	4.78	4.89	4.85	4.57	5.68	4.73	5.49	5.97	5.28	4.99	6.26	5.25							
90	5.10	4.81	4.84	4.89	5.76	4.98	7.19	6.60	6.32	6.21	6.89	6.39							
95	7.09	5.93	6.07	6.74	6.95	6.50	9.52	7.96	8.15	8.26	8.21	8.13							
100	9.50	7.64	7.97	9.01	8.51	8.54	11.8	9.58	10.1	10.3	9.45	9.92							
105	11.9	9.75	10.1	11.2	10.4	10.6	13.8	11.5	11.9	12.2	11.0	11.7							
110	13.5	11.7	11.8	12.8	12.0	12.0	15.1	13.1	13.2	13.5	12.5	13.0							
115	14.5	13.2	13.0	13.8	13.1	12.9	15.9	14.3	14.2	14.3	13.6	13.9							
120	15.7	14.5	14.1	14.8	14.1	13.8	16.9	15.3	15.2	15.2	14.5	14.8							
125	16.8	15.6	14.9	15.7	15.1	14.6	17.6	15.9	15.9	15.8	15.2	15.5							
130	17.3	16.2	15.0	16.1	15.5	14.7	17.7	15.8	16.3	15.8	15.3	15.8							
135	17.6	16.3	14.7	16.0	15.5	14.4	17.2	15.2	16.3	15.3	14.8	15.7							
140	18.1	16.1	15.2	16.3	15.3	14.6	17.1	14.7	16.0	15.1	14.5	15.4							
145	18.4	16.0	15.8	16.4	15.5	15.3	16.8	14.6	15.2	14.7	14.4	14.7							
150	16.9	15.1	15.1	15.1	14.5	14.4	15.1	13.6	13.9	13.4	13.3	13.2							
155	14.7	13.5	13.6	13.1	12.6	12.4	13.0	11.9	11.9	11.7	11.8	11.7							
160	13.1	11.9	11.9	11.6	11.1	11.0	12.0	10.8	10.8	10.8	10.7	10.6							
165	12.1	10.7	10.9	10.8	10.1	10.2	11.5	9.97	9.96	10.1	9.80	9.72							
170	11.3	9.88	10.2	10.0	9.48	9.67	11.1	9.76	9.72	9.81	9.50	9.38							
175	11.3	8.64	8.93	7.84	7.85	7.97	10.9	9.85	9.86	9.96	9.65	9.53							
180	8.80	8.37	8.07	7.74	8.51	8.77	8.81	8.37	8.07	7.71	8.70	8.73							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:ADMIN  
 Test Date:2023-09-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:9.345m [K=1.0000]  
 Remarks: